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| 10/005,507 | 11/07/2001 | Mahesh Subramanian | 21216-06393 | 9661 |
| 47372 | 7590 | 01/04/2005 | EXAMINER | |
| BIRCH, STEWART, KOLASCH & BIRCH, LLP 8110 GATEHOUSE ROAD SUITE 100 EAST FALLS CHURCH, VA 22042-1248 | | | VU, THANH T | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2174 | |

DATE MAILED: 01/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|-------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/005,507 | Applicant(s) SUBRAMANIAN ET AL. | |
| | Examiner Thanh T. Vu | Art Unit 2174 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) 24-32 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Claims 24-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 08/18/2004.

Claim Objections

Claims 14 and 21 is objected to because of the following informalities:

Claim 21, line 1, "a color of a lines" should be -- a color of a line --.

Claim 14, lines 2, "a window having a first, second, and third columns" should be -- window having first, second, and third columns--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 and 9-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Ueno et al. ("Ueno", Pub. No.: US 2002/0024535).

Per claim 1, Ueno teaches a method for generating and displaying a channel map for a network, the method comprising the steps of:

retrieving channel data for a plurality of nodes in the network (fig. 3; [0011]);

generating a graphical image of the channel map representing a first node and a second node of the plurality of nodes in the network from the retrieved channel data, the graphical image showing a relationship of a channel in the first node to a channel in the second node ([0011]; [0015]; [0189]); and

displaying the graphical image of the channel map (fig. 3; [0189]).

Per Claim 2, Ueno teaches the method of claim 1, further comprising the steps of:

determining nodes in the network and wherein the step of retrieving channel map data is performed for each node determined to be in the network (fig. 3; [0011]; [0015]).

Per claim 3, Ueno teaches The method of claim 1, further comprising the steps of:

receiving an input requesting information about a channel generating a second image of requested information, and displaying the second image with the generated image (fig. 6; [0013]; [0193]).

Per claim 4, Ueno teaches the method of claim 3, wherein the step of generating comprises creation of a list of channel data and the step of displaying includes creating a window over the graphical image of the channel map and showing the list in the window (fig. 6; [0209]).

Per claim 5, Ueno teaches the method of claim 4, wherein the list of channel data includes band, channel, side, circuit pack type, role and access type (Fig. 7 and 8; [0213]; [0214]; [0307]; [0409]).

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Per claim 6, Ueno teaches the method of claim 3, wherein the step of generating includes producing a pop- up menu of supported operations including one from the group of get additional information, generate reports or transition to other channel map images [0229]).

Per claim 7, Ueno teaches the method of claim 1, further comprising the step of storing retrieved channel data for the plurality of nodes in storage at the element management system (fig. 2; [0181]).

Per claim 9, Ueno teaches the method of claim 1, further comprising the steps of:
receiving an input requesting report, generating an image of the channel map in a printer file and sending the printer file to a printer (fig. 30 and 74; [0134]; [0382]).

Per claim 10, Ueno teaches the method of claim 1, further comprising the steps of:
receiving an input requesting an export of a channel map, creating a file with the channel map data, and storing the created file (figs. 30 and 74; [0134]; [0382]).

Per claim 11, Ueno teaches the method of claim 1, wherein the step of retrieving channel data includes the steps of:

retrieving optical band channel assignments, retrieving sub-rate information, retrieving data on provisioned circuits, and retrieving data on sub rate circuits ([0028]; [0030]; [0179]; [0181]).

Per claim 12, Ueno teaches the method of claim 1, further comprising the step of updating the channel map data and displaying an updated version of the channel map ([0193]; [0409]).

Per claim 13, Ueno teaches the method of claim 12, wherein the step of updating the channel map data and displaying an updated version of the channel map is responsive to one

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from the group of: user input, passage of time or an event being sent from an administrative complex of a node to the element management system ([0190];[0193]; [0409]).

Per claim 14, Ueno teaches the method of claim 1, wherein the graphical image of the channel map is a window having first, second and third columns, the first column provides labels for the bands and channels on a first direction to/from the first node, the third column provides labels for the bands and channels on a second direction to/from the second node, and the second column is positioned between the first and third columns and depicts channel and band allocation information (fig. 8; [0219]; [0220]; [0243]).

Per claim 15, Ueno teaches the method of claim 14, wherein the second column has a plurality of cells with left and right portions for displaying west and east side information for the node and lines in the cells correspond to connections made by the node, and wherein rows in the first and third columns are labeled with a unique channel identifier that includes a row and channel designation (fig. 13; [0243]; [0252]; [0420]).

Per claim 16, Ueno teaches the method of claim 15, wherein the rows are grouped in bands and each band is marked by visually distinct delineation (fig. 138; [0216]; [0036]).

Per claim 17, Ueno teaches the method of claim 15, wherein the graphical image of the channel map further comprises a legend positioned proximate the first, second and third columns in a split pane, the legend displays icons that may be placed in the cells of the second column and associated text descriptions (fig. 15; [0036]; [0553]).

Per claim 18, Ueno teaches the method of claim 15, wherein the graphical image of the channel map further comprises a legend positioned proximate the first, second and third columns

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in a split pane, the legend displays icons that may be placed in the cells of the second column and associated text descriptions (fig. 15; [0036]; [0553]-[0553]).

Per claim 19, Ueno teaches the method of claim 15, wherein the icons in the legend include one from the group of:

icons indicating whether the node is performing an add/drop function and whether a multiplexer exists ([0189]; [0179]);

icons indicating administrative state, icons representing alarm states, icons representing regeneration or pass through by a node, and icons representing error conditions (fig. 3; [0193]; [0553]-[0556]).

Per claim 20, Ueno teaches the method of claim 15, wherein lines in the cells are used to represent circuits, and line with a first visual format represents a non-provisioned circuit, and a line with a second visual format represents a provisioned circuit ([0011]; [0275]; [0532]; [0553]).

Per claim 21, Ueno teaches the method of claim 20, wherein a color of a line is used to indicate the status of the circuit, and wherein the line is colored a first color to indicate a critical problem, a second color to indicate a major problem, a third color to indicate a minor problem, and a fourth color to indicate no alarm conditions ([0553]-[0556]).

Claims 22 and 23 are rejected under the same rationale as claims 14 and 15 respectively.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueno et al.

("Ueno", Pub. No.: US 2002/0024535) and Langfahl Jr (U.S. Pat. No. 6,031,528).

Per claim 8, Ueno teaches the method of claim 1, further comprising the step of receiving an input requesting a report and displaying the generated image in the window (fig. 30; [0314]; [0382]), but does not teach generating an image of the channel map in HTML format and opening a browser window. However, Langfahl, Jr teaches generating an image of the channel map in HTML format and opening a browser window (fig. 5, col. 5, lines 33-47). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include the image of network map in html page of a web browser as taught by Langfahl Jr in the invention of Ueno because it provides users remote access to the information over the WWW.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mayo et al. (U.S. Pat. No. 5,751,965) discloses network connection status monitor and display.

Hansen (U.S. Pat. No. 6,772,204) discloses method and apparatus of providing a configuration script that uses connection rules to produce a configuration file or map for configuring a network device.

Arquie et al. (U.S. Pat. No. 6,636,239) discloses method of operating a graphical user interface to selectively enable and disable a datapath in a network.

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh T. Vu whose telephone number is (571) 272-4073. The examiner can normally be reached on Mon-Thur and every other Fri 8:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L. Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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